

# Divisibility Tests Practice

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Question 1

Conduct the divisibility tests on the following numbers

I. 77

### Divisibility Tests

**2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)

**3 Divisibility Test** (sum of the number's digits is divisible by 3)

**5 Divisibility Test** (0 or 5 in the one's place)

**6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)

**9 Divisibility Test** (sum of the number's digits is divisible by 9)

**10 Divisibility Test** (0 in the one's place)

II. 36

### Divisibility Tests

**2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)

**3 Divisibility Test** (sum of the number's digits is divisible by 3)

**5 Divisibility Test** (0 or 5 in the one's place)

**6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)

**9 Divisibility Test** (sum of the number's digits is divisible by 9)

**10 Divisibility Test** (0 in the one's place)

# Divisibility Tests Practice

III. 85

**Divisibility Tests**

- 2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)
- 3 Divisibility Test** (sum of the number's digits is divisible by 3)
- 5 Divisibility Test** (0 or 5 in the one's place)
- 6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)
- 9 Divisibility Test** (sum of the number's digits is divisible by 9)
- 10 Divisibility Test** (0 in the one's place)

IV. 330

**Divisibility Tests**

- 2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)
- 3 Divisibility Test** (sum of the number's digits is divisible by 3)
- 5 Divisibility Test** (0 or 5 in the one's place)
- 6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)
- 9 Divisibility Test** (sum of the number's digits is divisible by 9)
- 10 Divisibility Test** (0 in the one's place)

# Divisibility Tests Practice

Name: \_\_\_\_\_ **Key** \_\_\_\_\_

Date: \_\_\_\_\_

## Question 1

Conduct the divisibility tests on the following numbers

I. 77

### Divisibility Tests

**2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)

77 ❌ Fail

**3 Divisibility Test** (sum of the number's digits is divisible by 3)

77 ➔  $7+7=14$  ❌ Fail

**5 Divisibility Test** (0 or 5 in the one's place)

77 ❌ Fail

**6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)

77 ❌ Fail

77 ➔  $7+7=14$  ❌ Fail

**9 Divisibility Test** (sum of the number's digits is divisible by 9)

77 ➔  $7+7=14$  ❌ Fail

**10 Divisibility Test** (0 in the one's place)

77 ❌ Fail

II. 36

### Divisibility Tests

**2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)

36 ✅ Success

**3 Divisibility Test** (sum of the number's digits is divisible by 3)

36 ➔  $3+6=9$  ✅ Success

**5 Divisibility Test** (0 or 5 in the one's place)

36 ❌ Fail

**6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)

36 ✅ Success

36 ➔  $3+6=9$  ✅ Success

**9 Divisibility Test** (sum of the number's digits is divisible by 9)

36 ➔  $3+6=9$  ✅ Success

**10 Divisibility Test** (0 in the one's place)

36 ❌ Fail

# Divisibility Tests Practice

III. 85

## Divisibility Tests

**2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)

85 ❌ Fail

**3 Divisibility Test** (sum of the number's digits is divisible by 3)

85 →  $8+5=13$  ❌ Fail

**5 Divisibility Test** (0 or 5 in the one's place)

85 ✅ Success

**6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)

85 ❌ Fail

85 →  $8+5=13$  ❌ Fail

**9 Divisibility Test** (sum of the number's digits is divisible by 9)

85 →  $8+5=13$  ❌ Fail

**10 Divisibility Test** (0 in the one's place)

85 ❌ Fail

IV. 330

## Divisibility Tests

**2 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8)

330 ✅ Success

**3 Divisibility Test** (sum of the number's digits is divisible by 3)

330 →  $3+3+0=6$  ✅ Success

**5 Divisibility Test** (0 or 5 in the one's place)

330 ✅ Success

**6 Divisibility Test** (even number in the one's place 0 , 2 , 4 , 6 , 8 AND sum of the number's digits is divisible by 3)

330 ✅ Success

330 →  $3+3+0=6$  ✅ Success

**9 Divisibility Test** (sum of the number's digits is divisible by 9)

330 →  $3+3+0=6$  ❌ Fail

**10 Divisibility Test** (0 in the one's place)

330 ✅ Success